

This listing of claims replaces all prior versions, and listing, of claims in the application:

Claims listing:

1. (Original) A camouflaged interconnection scheme for interconnecting two spaced-apart implanted regions of a common conductivity type in an integrated circuit or device in a manner which inhibits reverse engineering thereof, the interconnection scheme comprising:
 - a first implanted region in the integrated circuit or device forming a conducting channel between two spaced-apart implanted regions, the conducting channel being of said common conductivity type and bridging a region between said two spaced-apart regions; and
 - a second implanted region of opposite conductivity type in the integrated circuit or device, said second implanted region being disposed between said two spaced-apart implanted regions of common conductivity type and overlying said conducting channel.
2. (Original) The invention of claim 1 wherein said second implanted region overlying said conducting channel has a larger area, when viewed in a direction normal to a major surface of the integrated circuit or device, than has said conducting channel.
3. (Original) The invention of claim 1 wherein said two spaced-apart implanted regions form source and/or drain contacts, respectively, of two separate field effect transistors (FETs).
4. (Original) The invention of claim 1 wherein the second implanted region is provided in said integrated circuit or device over regions having no conducting channels formed therein.
5. (Original) A camouflaged interconnection scheme for interconnecting a plurality of spaced-apart implanted regions of a common conductivity type in an integrated circuit or

device, the interconnection scheme comprising:

a plurality of interconnects each interconnecting selected implant regions of said plurality of spaced-apart implanted regions, each interconnect comprising a buried conducting channel bridging a region between the selected implant regions; and at least one implanted region of opposite conductivity type in the integrated circuit or device, the at least one implanted region of opposite conductivity type being disposed over at least a majority of said plurality of interconnects to camouflage said at least a majority of said plurality of interconnects.

6. (Original) The invention of claim 5 wherein said at least one implanted region of opposite conductivity type has a larger area than a total area of a related at least one of said conducting channels, when viewed in a direction normal to a major surface of the integrated circuit or device.

7. (Original) The invention of claim 5 wherein at least selected one of said spaced-apart implanted regions form source and/or drain contacts, respectively, of adjacent field effect transistors (FETs).

8. (Original) The invention of claim 5 wherein the at least one implanted region of opposite conductivity type is provided in said integrated circuit or device over regions having no conducting channels formed therein.

15. (Currently Amended) A ~~an~~ buried interconnection scheme for interconnecting two spaced-apart doped regions of a common conductivity type in an integrated circuit or device in a manner which inhibits reverse engineering thereof, the integrated circuit or device having a plurality of spaced-apart regions arranged in as transistors, said two spaced-apart doped regions each forming an active region in different ones of said transistors and each providing a different transistor function with respect to the transistor in which it forms an active region, the interconnection scheme comprising:

a first region in the integrated circuit or device disposed laterally of and in direct
 9 contact with the two spaced-apart ^{doped} regions, the first region being of said common
 10 conductivity type, the first region providing a buried conducting channel for the two
 11 spaced-apart ^{doped} regions; and

a second region of opposite conductivity type in the integrated circuit or device, said
 second region overlaying said first region to conceal the conducting channel.

16. (Previously added) The interconnection scheme of claim 15 wherein said second
 region overlying said first region has a larger area, when viewed in a direction normal to a
 major surface of the integrated circuit or device, than has said first region.

17. (Currently Amended) The interconnection scheme of claim 15 wherein said two
 spaced-apart ^{doped} regions form source and ~~or~~ drain contacts, respectively, of two separate field
 effect transistors (FETs).

E1 18. (Amended) A ~~buried~~ buried interconnection scheme for interconnecting two
 spaced-apart doped regions of a common conductivity type in an integrated circuit or device
 in a manner which inhibits reverse engineering thereof, the integrated circuit or device having
a plurality of spaced-apart regions arranged in as transistors, said two spaced-apart doped
regions each forming an active region in different ones of said transistors, the interconnection
 scheme comprising:

8 a first region in the integrated circuit or device disposed laterally of and in direct
 9 contact with the two spaced-apart ^{doped} regions, the first region being of said common
 10 conductivity type, the first region providing a buried conducting channel for the two
 spaced-apart ^{doped} regions;

a second region of opposite conductivity type in the integrated circuit or device, said
 second region overlaying said first region to conceal the conducting channel;

at least one additional spaced-apart region of the common conductivity type, said at
 14 at least one additional spaced-apart region being spaced-apart from the two spaced-apart

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21. The interconnection scheme of claim 19 wherein at least selected ones of said spaced-apart regions form source and/or drain contacts, respectively, of adjacent field effect transistors (FETs).

22. (Once Amended) The interconnection scheme of claim 19 further comprising at least one other region of the opposite conductivity type, the at least one other region of the opposite conductivity type being laterally disposed of and in direct contact with additional selected ones of the plurality of spaced-apart regions, wherein said additional selected ones of the plurality of spaced-apart regions are not electrically connected by one of said plurality of buried conducting channels.

23. (Added by last response) The invention of claim 1 wherein the second implanted region has a depth less than a depth of the first implanted region.

61 24. (Added by last response) The invention of claim 5 wherein the at least one implanted region of opposite conductivity type has a depth less than a depth of each of said plurality of interconnects.

25. (Added by last response) The invention of claim 15 wherein the second region of opposite conductivity type has a depth less than a depth of said first region.

26. (Added by last response) The invention of claim 19 wherein the at least one region of opposite conductivity type has a depth less than a depth of each of said plurality of buried conducting channels.

27. (New) The interconnection scheme of claim 15 wherein the transistor function of a first one of said two spaced-apart doped regions is a drain function and the transistor function of a second one of said two spaced-apart doped regions is a source function.
